ABSTRACT OF THE DISCLOSURE

A multicast communication method for allowing a communication control apparatus for communicating in accordance with IPv4 to communicate with a communication control apparatus for communicating in accordance with IPv6. This method includes the steps of: when an IPv4 multicast packet is inputted, discriminating that this packet is a data packet on the basis of an IPv4 header; when it is determined that the packet is the data packet, converting the IPv4 header of the IPv4 multicast packet into an IPv6 header; generating an IPv6 multicast packet; and outputting the generated IPv6 multicast packet to a IPv6 network.